



FUTURE-STEM-HUB



Co-funded by
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Bulletin No. 3

Collaborative Workshops for Creative Development and Coding Challenges

Türkiye



On 1-2 April 2026, the Kütahya Provincial Directorate of National Education held two workshop sessions for 53 students from two secondary schools and 4 teachers. After a presentation of all five modules and a demonstration of the platform, students created interactive games in Python by testing, adjusting and extending existing code.

Spain



On 17 April 2026, M&M Profuture Training, in cooperation with Escola Internacional Teide welcomed 23 students and 2 teachers. Working individually and in small groups, students explored AI fundamentals, computational thinking, Scratch programming and introductory Python activities, before reflecting together on the classroom potential of the materials.

Bulgaria



On 29 April 2026, Tetra organised a workshop at the Vocational School of Electronics 'John Atanasov' in Stara Zagora for 12 students and 2 teachers. Students completed coding challenges with Python and the Pygame and Arcade libraries, observing how small code changes affected game behaviour, while teachers reflected on how to integrate the exercises into their lessons.

Germany



On 4 May 2026, the University of Duisburg-Essen held a workshop for 10 secondary students and 2 teachers, preceded by preparatory sessions on Python and computational thinking. Students were quickly won over by the innovative subject matter and the playful, step-by-step practical exercises.

Portugal

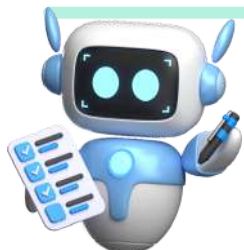


On 9 June 2026, ETAP – Escola Profissional in Viana do Castelo hosted 17 students from its Computer Systems Management and Programming course and 2 teachers. Students tested the hands-on Python and Scratch tasks.

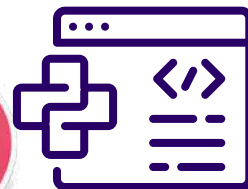
EVALUATION SNAPSHOT

Students tested the hands-on Python and Scratch tasks, with over 90% rating the materials as clear and relevant.

115 students • 12 teachers • Türkiye, Spain, Bulgaria, Germany and Portugal



Empowering Secondary School STEM Education with AI
Training and Resources for Students and Educators
2024-1-DE03-KA220-SCH-000247346





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Course 2: Delving Deeper in AI with Python and Scratch

The course is designed for secondary school students ready to take their first practical steps in AI. The 5 modules combine machine learning concepts with hands-on programming tasks in Python and Scratch, including the creation of interactive games using the Pygame and Arcade libraries. The course is now available as a digital course on the FUTURE-STEM-HUB learning platform, offering step-by-step tutorials, practical exercises and quizzes for both self-paced learning and classroom use.

5 modules

Python + Scratch

Pygame + Arcade

Step-by-step learning

E-Toolkit for School Educators: Enhancing AI Skills

The developed E-Toolkit for School Educators is a practical methodological guide supporting teachers in bringing AI into their STEM classes. The toolkit contains 12 lesson plans based on the content of both project courses, covering topics from AI fundamentals and ethics to hands-on activities with Python and Scratch. Each lesson plan provides teachers with ready-to-use guidance for organising and delivering in-class activities and assessing students' progress.

12 lesson plans

Python + Scratch

AI, ethics + assessment

Transnational Facilitator Training in Barcelona, Spain

From 10 to 13 February 2026, M&M Profuture Training hosted the project partners in Barcelona, for the 3rd Partner Meeting and the Transnational Facilitator Training Workshop. The management meeting reviewed the progress of project results and deliverables. Over the following days, participants strengthened their skills in delivering engaging AI training with the educational materials, practising introductory AI facilitation, Python and Scratch activities, game-based approaches such as escape rooms, and simulated student training sessions. The programme also included a dedicated session for exchanging innovative STEM education practices among partners.

10-13 February 2026

Barcelona, Spain

11 Participants



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